

Applicants: Philip David Austin & Olivier Boireau
For: IMAGE OR VIDEO PROCESSING
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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method (900) for processing image or video data for a display, the method comprising the step of: separating (905, 925) a stream of image or video data into a block of pixels, wherein each pixel within the block of pixels comprises a first sequence of pixel bit values for a colour component of said image or video and one or more bits to be discarded (730); the method characterised by the steps of: determining (950, 960), for the block of pixels, a binary value of said one or more bits to be discarded (730); and modifying (955, 965) said first sequence of pixel bit values as a block of pixels in response to said determined binary value to form a reduced number of pixel bit values to represent said colour component of a pixel within the block of pixels.

2. (Previously Presented) The method (900) for processing image or video data for a display according to Claim 1, the method further characterised by the step of: determining an average colour component for one or more colours of said block of pixels (930), wherein a number of said first sequence of pixel bit values represents a number of respective baseline colour component values of a pixel (935).

3. (Previously Presented) The method (900) for processing image or video data for a display according to Claim 2, wherein the step of determining an average colour component (930) includes the step of:

adding a number of colour components from a block of pixel data from said stream of image or video data to form a colour component pixel value; and dividing said colour component pixel value by the number of pixels to provide an average colour component value.

4. (Currently Amended) The method (900) for processing image or video data for a display according to Claim 2 ~~or Claim 3~~, the method further characterised by

the step of: truncating said average colour component value (920) by discarding one or more lesser significant bits (950,960) to obtain a reduced number of bits forming said first sequence of pixel bit values for pixels within a block.

5. (Currently Amended) The method (900) for processing image or video data for a display according to Claim 1, wherein the step of modifying (955,965) includes modifying a bit of higher significance within said first sequence of pixel bit values with one or more discarded (730) bits of lesser significance.

6. (Currently Amended) The method (900) for processing image or video data for a display according to Claim 1, wherein said step of determining (950,960) a binary value of said one or more bits to be discarded (730) includes determining an offset for said respective colour component based on said one or more bits to be discarded (730), where said offset is used to determine the number of pixels within the block for which the baseline value of that colour component are to be modified.

7. (Previously Presented) The method (900) for processing image or video data for a display according to Claim 6, the method further characterised by the step of: dividing the offset value by a multiple of the number of bits to be discarded (730) to indicate the number of pixels within the block for which a correction value is to be added to the baseline value of that colour component.

8. (Currently Amended) The method (900) for processing image or video data for a display according to Claim 1, the method further characterised by the step of: omitting said step of modifying when said first sequence of pixel bit values comprises a series of binary '1's, to avoid a bit-rollover when modifying said first sequence of pixel bit values.

9. (Previously Presented) The method (900) for processing image or video data for a display according to Claim 1, the method further characterised by the steps of: determining a level of image detail in an image area of said stream of image or video data; and applying said steps of determining a binary value of said one or more bits to be discarded (730) and modifying said first sequence of pixel bit values in response to determining a low level of image detail.

10. (Currently Amended) The method (900) for processing image or video data for a display according to Claim 9, wherein said step of determining a level of image detail includes determining a luminance value (910) for a number of pixels within a block of pixels, such that if the luminance value is below a threshold (915) then the block

of pixels are determined as residing within a low level of image detail.

11. (Currently Amended) An image or video processing system, adapted to perform the method steps of ~~any of Claims 1 to 10~~.

12. (Previously Presented) A display driver (111) for refreshing an image of a display device, wherein the display driver (111) is adapted to perform the method steps of Claim 1.

13. (Previously Presented) A storage medium storing processor-implementable instructions for controlling one or more processors to carry out the method of Claim 1.

14. (Previously Presented) An image or video communication device (100) having a display (110) adapted to perform the method steps of Claim 1.

15. (Currently Amended) A image or video communication device (100), the device comprising: a display_(110) for displaying an image; a processor (108), operably coupled to said display (110), for processing said image to be displayed wherein said processor is configured to separate a stream of image or video data into a block of pixels, wherein each pixel within the block of pixels comprises a first sequence of pixel bit values for a colour component of said image or video and one or more bits to be discarded (730), characterised in that the processor (108) determines a binary value of said one or more bits to be discarded (730) for the block of pixels, and modifies as a block of pixels said first sequence of pixel bit values based on the binary value to form a reduced number of bit

values that represent said colour component of a pixel within the block of pixels.

16. (Currently Amended) The image or video communication device (100) according to Claim 14 ~~or Claim 15~~, wherein the image or video communication device (100) device is one of: a cellular phone, a portable or mobile radio, a personal digital assistant, a laptop computer, a wirelessly networked PC.